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Patent 4633246: Time divison multiplex ring

... Outputs of each **multiplexer**/demultiplexer are transmitted through **redundant** paths by bridging the ...
In order for this inherent **protection switching mechanism** to work, an alternate ...

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21 [Report on the Workshop on Quality of Service Issues in High Speed Networks](#)

S. Keshav

 October 1992 **ACM SIGCOMM Computer Communication Review**, Volume 22 Issue 5

 Full text available: [pdf\(1.28 MB\)](#)

 Additional Information: [full citation](#), [index terms](#)


22 [Generalized loop-back recovery in optical mesh networks](#)

Muriel Médard, Richard A. Barry, Steven G. Finn, Wenbo He, Steven S. Lumetta

 February 2002 **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 1

 Full text available: [pdf\(243.86 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Current means of providing loop-back recovery, which is widely used in SONET, rely on ring topologies, or on overlaying logical ring topologies upon physical meshes. Loop-back is desirable to provide rapid preplanned recovery of link or node failures in a bandwidth-efficient distributed manner. We introduce generalized loop-back, a novel scheme for performing loop-back in optical mesh networks. We present an algorithm to perform recovery for link failure and one to perform generalized loop-back ...

Keywords: WDM, loop-back, mesh networks, network restoration

23 [Coupling compiler-enabled and conventional memory accessing for energy efficiency](#)

Raksit Ashok, Saurabh Chheda, Csaba Andras Moritz

 May 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 2

 Full text available: [pdf\(1.41 MB\)](#)

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This article presents Cool-Mem, a family of memory system architectures that integrate conventional memory system mechanisms, energy-aware address translation, and compiler-enabled cache disambiguation techniques, to reduce energy consumption in general-purpose architectures. The solutions provided in this article leverage on interlayer tradeoffs between architecture, compiler, and operating system layers. Cool-Mem achieves power reduction by statically matching memory operations with energy-eff ...

Keywords: Energy efficiency, translation buffers, virtually addressed caches

24 The next generation of internetworking

Gurudatta M. Parulkar

December 1989 **ACM SIGCOMM Computer Communication Review**, Volume 20 Issue 1Full text available:  pdf(1.86 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper describes a research effort concerned with the design of the next generation of internet architecture, which has been necessitated by two emerging trends. First, there will be at least a few orders of magnitude increase in data rates of communication networks in the next few years. For example, researchers are already prototyping networks with data rates of up to a few hundred Mbps, and are planning networks with data rates up to a few Gbps. Second, researchers from all disciplines of ...

25 Transporting compressed video over ATM networks with explicit-rate feedback control

T. V. Lakshman, P. P. Mishra, K. K. Ramakrishnan

October 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 5Full text available:  pdf(232.17 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** ATM, congestion control, packet video**26** Papers: Context-agile encryption for high speed communication networks

Lyndon G. Pierson, Edward L. Witzke, Mark O. Bean, Gerry J. Trombley

January 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 1Full text available:  pdf(1.43 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

Different applications have different security requirements for data privacy, data integrity, and authentication. Encryption is one technique that addresses these requirements. Encryption hardware, designed for use in high-speed communications networks, can satisfy a wide variety of security requirements if the hardware implementation is key-agile, key length-agile, mode-agile, and algorithm-agile. Hence, context-agile encryption provides enhanced solutions to the secrecy, interoperability, and ...

27 Computer Communication Networks: Approaches, Objectives, and Performance Considerations

Stephen R. Kimbleton, G. Michael Schneider

September 1975 **ACM Computing Surveys (CSUR)**, Volume 7 Issue 3Full text available:  pdf(3.99 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**28** Reservation-based bandwidth allocation in a radio ATM network

George M. Stamatielos, Vassilios N. Koukoulidis

June 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 3Full text available:  pdf(300.68 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** bandwidth allocation, broadband ATM networks, radio LANs, wireless multimedia**29** Credit-based fair queueing (CBFQ): a simple service-scheduling algorithm for packet-switched networks

Brahim Bensaou, Danny H. K. Tsang, King Tung Chan

October 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 5

Full text available:  pdf(282.71 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


This paper proposes a simple rate-based scheduling algorithm for packet-switched networks. Using a set of counters to keep track of the credits accumulated by each traffic flow, the bandwidth share allocated to each flow, and the size of the head-of-line (HOL) packets of the different flows, the algorithm decides which flow to serve next. Our proposed algorithm requires on average a smaller complexity than the most interesting alternative ones while guaranteeing comparable fairness, delay, and d ...

Keywords: Fair queueing, packet scheduling, quality of service, traffic control

30 Transaction papers: Traffic equivalence and substitution in a multiplexer with applications to dynamic available capacity estimation

Costas A. Courcoubetis, Antonis Dimakis, George D. Stamoulis

April 2002 **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 2

Full text available:  pdf(486.52 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

For a multiplexer fed by a large number of sources, we derive conditions under which a given subset of the sources can be substituted for a single source while preserving the buffer overflow probability and the dominant timescales of buffer overflows. This notion of traffic equivalence is stronger than simple effective bandwidth equality and depends on the multiplexing context. We propose several applications of the above traffic substitution conditions. First, we show that fractional Brownian m ...

Keywords: available capacity, call admission control, effective bandwidth, many-sources asymptotic, on-line estimation, traffic modeling

31 The SHRIMP performance monitor: design and applications

Margaret Martonosi, Douglas W. Clark, Malena Mesarina

January 1996 **Proceedings of the SIGMETRICS symposium on Parallel and distributed tools**

Full text available:  pdf(1.01 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

32 Telecommunications: Satellite communications representation in network simulation

Kenneth Y. Jo

December 2001 **Proceedings of the 33rd conference on Winter simulation**

Full text available:  pdf(412.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents methodologies to represent satellite communications (SATCOM) behaviors in network simulation. This paper is based on tasks performed for generic network warfare simulation that employs traditional network simulation models. The methodologies also include the integration issues of SATCOM tools and the network simulation models. We first characterize space segments and assets involved in warfare operations and exercises, and then analyze system behaviors to measure space-link p ...

33 Redundant trees for preplanned recovery in arbitrary vertex-redundant or edge-redundant graphs

Muriel Médard, Steven G. Finn, Richard A. Barry

October 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 5

Full text available:  pdf(251.44 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: graph theory, multicasting, network recovery, network robustness, routing, trees

34 Early experience with message-passing on the SHRIMP multicomputer

Edward W. Felten, Richard D. Alpert, Angelos Bilas, Matthias A. Blumrich, Douglas W. Clark, Stefanos N. Damianakis, Cezary Dubnicki, Liviu Iftode, Kai Li

May 1996 **ACM SIGARCH Computer Architecture News , Proceedings of the 23rd annual international symposium on Computer architecture**, Volume 24 Issue 2

Full text available:  pdf(1.39 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The SHRIMP multicomputer provides virtual memory-mapped communication (VMMC), which supports protected, user-level message passing, allows user programs to perform their own buffer management, and separates data transfers from control transfers so that a data transfer can be done without the intervention of the receiving node CPU. An important question is whether such a mechanism can indeed deliver all of the available hardware performance to applications which use conventional message-passing ...

35 The Multics kernel design project

Michael D. Schroeder, David D. Clark, Jerome H. Saltzer

November 1977 **Proceedings of the sixth ACM symposium on Operating systems principles**

Full text available:  pdf(1.31 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe a plan to create an auditable version of Multics. The engineering experiments of that plan are now complete. Type extension as a design discipline has been demonstrated feasible, even for the internal workings of an operating system, where many subtle intermodule dependencies were discovered and controlled. Insight was gained into several tradeoffs between kernel complexity and user semantics. The performance and size effects of this work are encouraging. We conclude that verifi ...

Keywords: Multics, Operating systems, Protection, Security, Security kernel, Supervisors, Type extension, Verifiable systems

36 Design and realization of MLM: a multilingual machine

F. M G Franca, N. Q. Vasconcelos, E. S T Fernandes

December 1986 **ACM SIGMICRO Newsletter , Proceedings of the 19th annual workshop on Microprogramming**, Volume 17 Issue 4

Full text available:  pdf(986.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the design and realization of MLM, a Multi-Lingual machine whose main goal is to provide support for teaching and research in Microprogramming and Computer Architecture. MLM is based on a standard (non-microprogrammable) minicomputer whose microarchitecture has been modified in order to satisfy the requirements of a multi-lingual environment. The resulting machine is microprogrammable, offers facilities for interpreting different target repertoires, and has m ...

37 A comparative analysis of fuzzy versus conventional policing mechanisms for ATM networks

Vincenzo Catania, Giuseppe Ficili, Sergio Palazzo, Daniela Panno

June 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 3

Full text available:  pdf(1.72 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

38 ARPS: a new real-time computer

Kenneth J. Thurber

October 1976 **ACM SIGARCH Computer Architecture News**, Volume 5 Issue 4

Full text available:  pdf(1.14 MB)

Additional Information: [full citation](#), [references](#), [citations](#)

39 A comparative study of fuzzy versus "fixed" thresholds for robust queue management in cell-switching networks

Allen R. Bonde, Sumit Ghosh

August 1994 **IEEE/ACM Transactions on Networking (TON)**, Volume 2 Issue 4

Full text available:  pdf(976.98 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

40 Trunking of TDM and narrowband services over IP Networks

James Aweya

January 2003 **International Journal of Network Management**, Volume 13 Issue 1

Full text available:  pdf(418.58 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The recent interest in IP as the vehicle for transporting TDM and narrowband services stems from the possibility of using a common transport network for voice, video, and data, and the flexibility with which new services can be introduced. A key step in the evolution of networks towards a 'broadband' IP-based environment is the 'graceful' interworking of the IP networks with the existing networks and services, particularly with the circuit switched telephone network. A &I ...

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Patent Assignment Abstract of Title

Total Assignments: 1**Application #:** 09990023 **Filing Dt:** 11/21/2001**Patent #:** NONE**Issue Dt:****PCT #:** NONE**Publication #:** US20030095502**Pub Dt:** 05/22/2003**Inventors:** Donald J. Glaser, Anthony Barrera, William W. Lu, Dennis P. Miller**Title:** Protection switching mechanism**Assignment: 1****Reel/Frame:** 012324/0212**Received:**
11/30/2001**Recorded:**
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6**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).**Assignors:** GLASER, DONALD J.**Exec Dt:** 11/21/2001BARRERA, ANTHONY**Exec Dt:** 11/21/2001LU, WILLIAM W.**Exec Dt:** 11/21/2001MILLER, DENNIS P.**Exec Dt:** 11/21/2001**Assignee:** ADC DSL SYSTEMS, INC.13525 TECHNOLOGY DRIVE
EDEN PRAIRIE, MINNESOTA 55344**Correspondent:** FOGG SLIFER & POLGLAZE, P.A.

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